

AMENDMENTS TO THE CLAIMS

Please replace the original claims with the following list:

1. (currently amended): A device for sampling air, the device comprising;

an at least partially airfoil shaped frame having at least an upper and lower surface for generating a pressure differential across the upper and lower surface thereof; and

an absorbent filter media for engaging the frame, the filter media being capable of absorbing particulate matter from an airstream.
2. (original): The device of Claim 1 wherein the frame includes top and bottom opposing surfaces each of the surfaces defining a leading edge and a trailing edge.
3. (original): The device of Claim 1 further including means for propelling the frame through the air.
4. (original): The device of Claim 1 wherein the frame is constructed of one of the following materials: carbon fiber, plastic, nylon, and a composite.
5. (original): The device of Claim 2 wherein a part of the frame defines an interior space between the top and bottom opposing surfaces and wherein a part of the frame occupies at least a part of said interior space.
6. (original): The device of Claim 5 wherein the absorbent filter media for fitting inside the frame is pleated.
7. (original): The device of Claim 1 wherein the absorbent filter media is electrostatically charged.
8. (currently amended): The device of Claim ~~1~~ 2 wherein the frame defines an opening adjacent ~~its~~ the leading edge and adjacent ~~its~~ the trailing edge.
9. (original): The device of Claim 8 wherein the shape of the opening adjacent its leading edge is optimized such that the average velocity of the air in the opening is substantially equal to the average velocity of the free air stream when there is relative motion of the frame with respect to the air.
10. (original): The device of Claim 1 wherein the longest dimension of the frame is between 1.0 and 12.0 inches.

11. (original): The device of Claim 1 wherein the total weight of the frame and absorbent material is less than about 5.0 ounces.
12. (original): The device of Claim 1 wherein the frame is formed by an injection molding.
13. (original): The device of Claim 2 wherein the frame is formed at least partially from one of the following materials: plastic, nylon, carbon fiber, or a composite.
14. (original): The device of Claim 2 wherein the frame further includes at least one end plate for holding the top and bottom opposing surfaces in spaced apart relation.
15. (currently amended): The device of Claim 1 further including a vehicle being capable of moving through an airstream and being capable of ~~for~~ engaging the frame ~~of the vehicle, the frame~~ adapted to include a mounting plate for ~~rotatable~~ rotably mounting the frame with respect to the vehicle such that the frame can be moved between a use position ~~enclosed within a surface defining the interior of the vehicle in the airstream and an exposed a stored position for passing through the airframe out of the airstream~~.
16. (original): The device of Claim 1 further including a vehicle to propel the frame through the air and a bracket to mount the frame to the vehicle.
17. (original): A method for sampling air, the method comprising the steps of:
 - providing an airfoil shaped air sample collection device;
 - providing a vehicle;
 - attaching the air sample collection device to the vehicle; and
 - moving the vehicle through the air.
18. (original): The method of claim 17 wherein the attaching step includes the step of orienting the air sample collection device with a leading edge thereof facing the direction of movement of the vehicle through the air.
19. (original): The method of claim 17 further including following the moving step, the step of removing the air sample collection device from the vehicle and analyzing it for samples collected.
20. (original): The method of claim 17 wherein the vehicle of the providing step is one of the following: airborne vehicle, marine vehicle or land vehicle.

21. (currently amended): A device for sampling air, the device comprising;

an at least partially airfoil shaped frame wherein the frame includes top and bottom opposing surfaces, each of the surfaces defining a leading edge and a trailing edge, and wherein the frame includes at least one end plate for holding the top and bottom opposing surfaces in spaced apart relation, and wherein the frame is constructed of one of the following materials: carbon fiber, plastic, nylon, and a composite, and wherein a part of the frame defines an interior space between the top and bottom opposing surfaces, and wherein a part of the frame occupies at least a part of said interior space;

a pleated absorbent filter media for engaging the frame, the filter media being capable of absorbing particulate matter from an airstream; and

a means for propelling the frame through ~~the air~~ an airstream and being capable of engaging the frame, the frame adapted to include a mounting plate for rotably mounting the frame with respect to the vehicle such that the frame can be moved between a use position in the airstream and a stored position out of the airstream.